CIE FT 55X

MODEL

SERVICE MANUAL

SCHEMATIC DIAGRAM

(CHASSIS : C_500)

S/N: 4858800622

SAFETY CAUTION :

BEFORE SERVICING THIS CHASSIS IT IS IMPORTANT THAT THE SERVICE TECHNICIAN READ AND FOLLOW THE "X-RAY RADIATION PRECAUTION . "SAFETY PRECAUTIONS" AND "PRODUCT SAFETY NOTICE" IN THE SERVICE MANUAL.

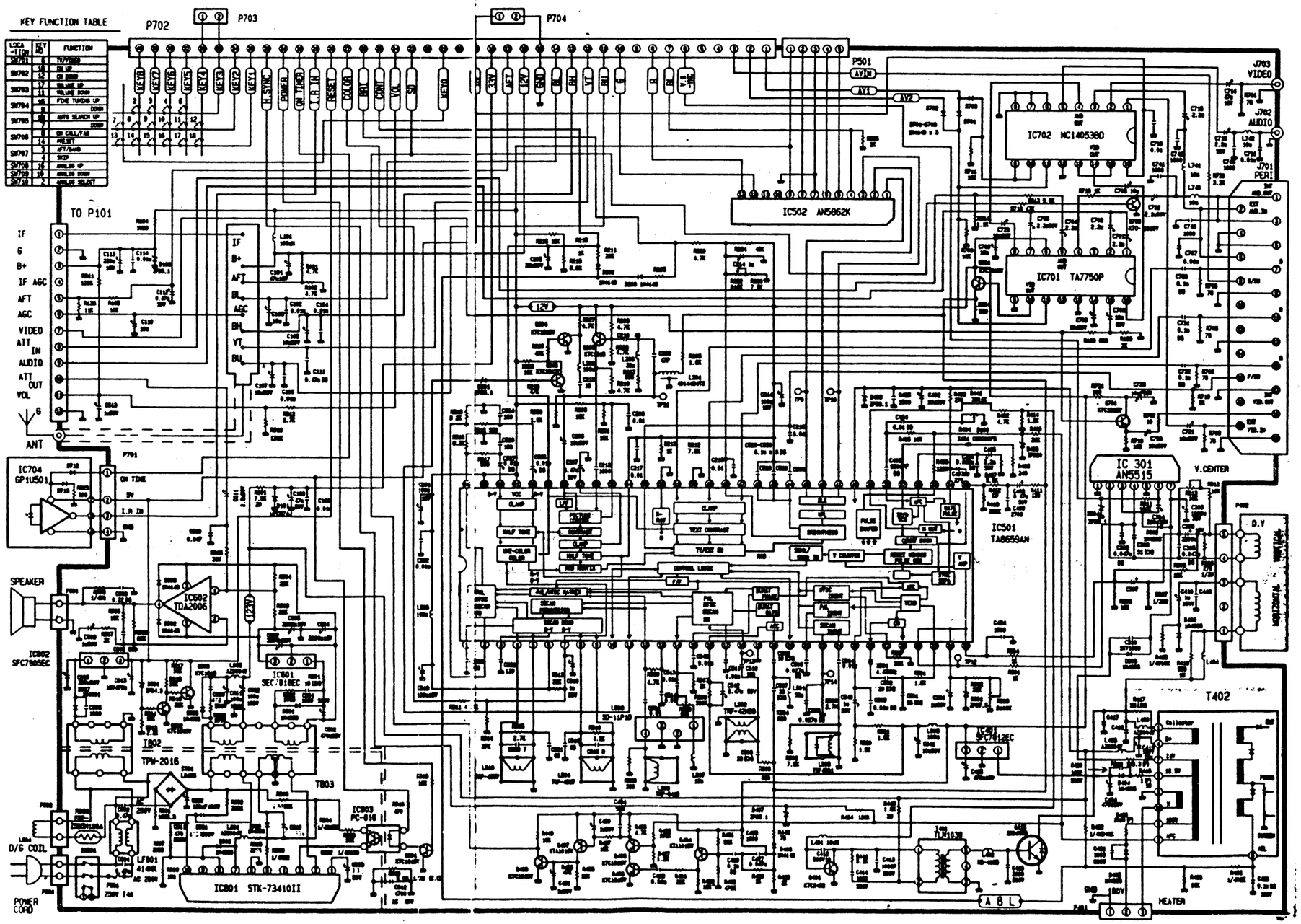
NOTES :

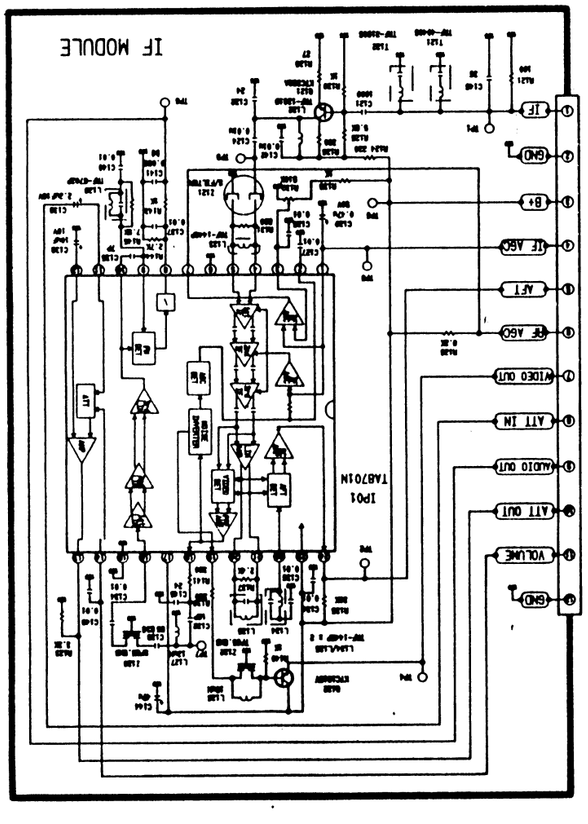
1. RESISTANCE VALUES ARE IN OHMS K = 1000 M = 1000000
2. CAPACITANCE VALUES 1.0 AND ABOVE ARE IN pF THOSE BELOW ARE IN uF EXCEPT AS INDICATED.
3. INDUCTOR VALUES IN uH EXCEPT AS INDICATED.
4. VOLTAGES ARE MEASURED FROM CHASSIS GROUND TO POINT INDICATED WITH A " VTVM " WHILE RECEIVING A COLOR BAR SIGNAL WITH ALL CONTROLS SET TO THE MAXIMUM POSITION. (FOR A NOMINAL LINE VOLTAGE AC 110-260V 50HZ).
5. SINCE THE CIRCUIT DIAGRAM IS A STANDARD ONE THE CIRCUIT AND CIRCUIT CONSTANTS MAY BE SUBJECT TO CHANGE FOR IMPROVEMENT WITHOUT ANY NOTICE.

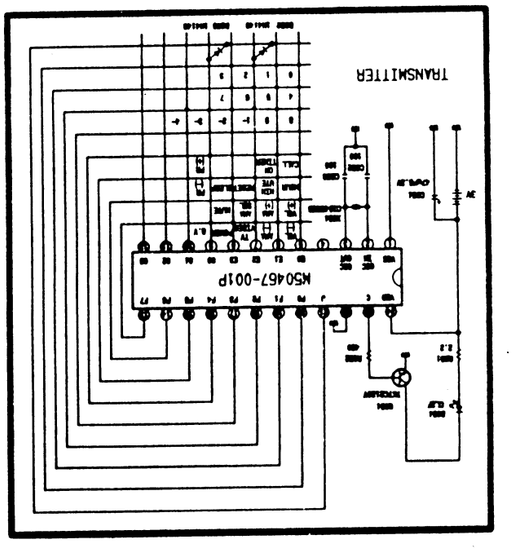
PRODUCT SAFETY NOTE :

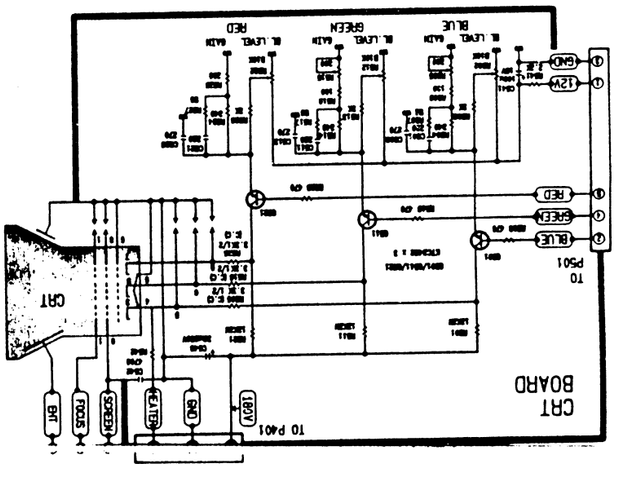
SHADED COMPONENTS HAVE SPECIAL CHARATERISTICS IMPORTANT TO SAFETY AND SHOULD BE REPLACED ONLY WITH TYPES IDENTICAL TO THOSE IN THE ORIGINAL OR SPECIFIED IN THE PARTS LIST.
DONT'T DEGRADE THE SAFETY OF THE SET THROUGH INPROPER SERVICING.

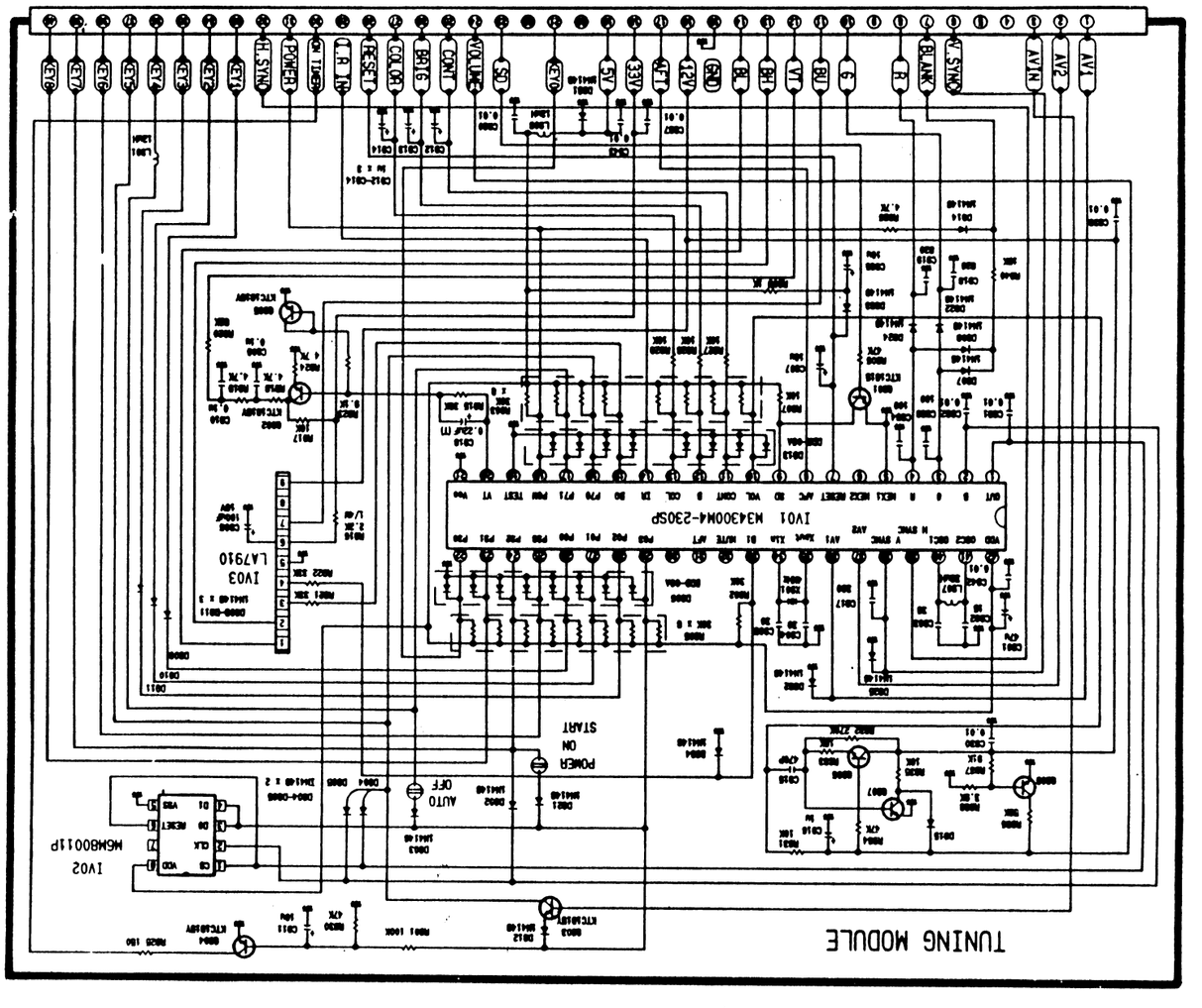
LOCATION	PART NAME	14"	20"	21"
——	CRT	A34JLL90X	A48JLL90X	A51JSM90X02
——	SOCKET CRT	I-CSH6113	I-CSH6113	CVT3308-0901
T402	FBT	DCF-1577A	DCF-2077	KFS-60676
L484	COIL LIN	L-125	L-102	L-102
L884	D.COIL	SK-1412-B	SK-2011-B	DC-2070
R211	R CARBON	22K ohm	62K ohm	62K ohm
R225	R CARBON	47K ohm	82K ohm	82K ohm
R542	R FUSIBLE	1W 3.6 ohm	1W 4.7 ohm	1W 6.2 ohm
C307	C ELECTRO	3.3uF 50V	3.3uF 50V	2.2uF 50V
C416	C MYLAR	1.6KV 5600pF	1.6KV 6800pF	1.6KV 820pF
C417	C CERA	2KV 470pF	2KV 470pF	
C418	C MYLAR	200V 0.51uF	200V 0.51uF	200V 0.36uF
T803	TRANS SMPS	TSH-4225	TSH-4225	TSH-4245
C437	C CERA			50V 100PF
Q402	TR	2SD1554	2SD1555	2SD1555




IF MODULE
IF
GND
B+
IF AGC
AFT
RF AGC
VIDEO OUT
ATT IN
AUDIO OUT
ATT OUT
VOLUME
GND
IP01
TA8701N

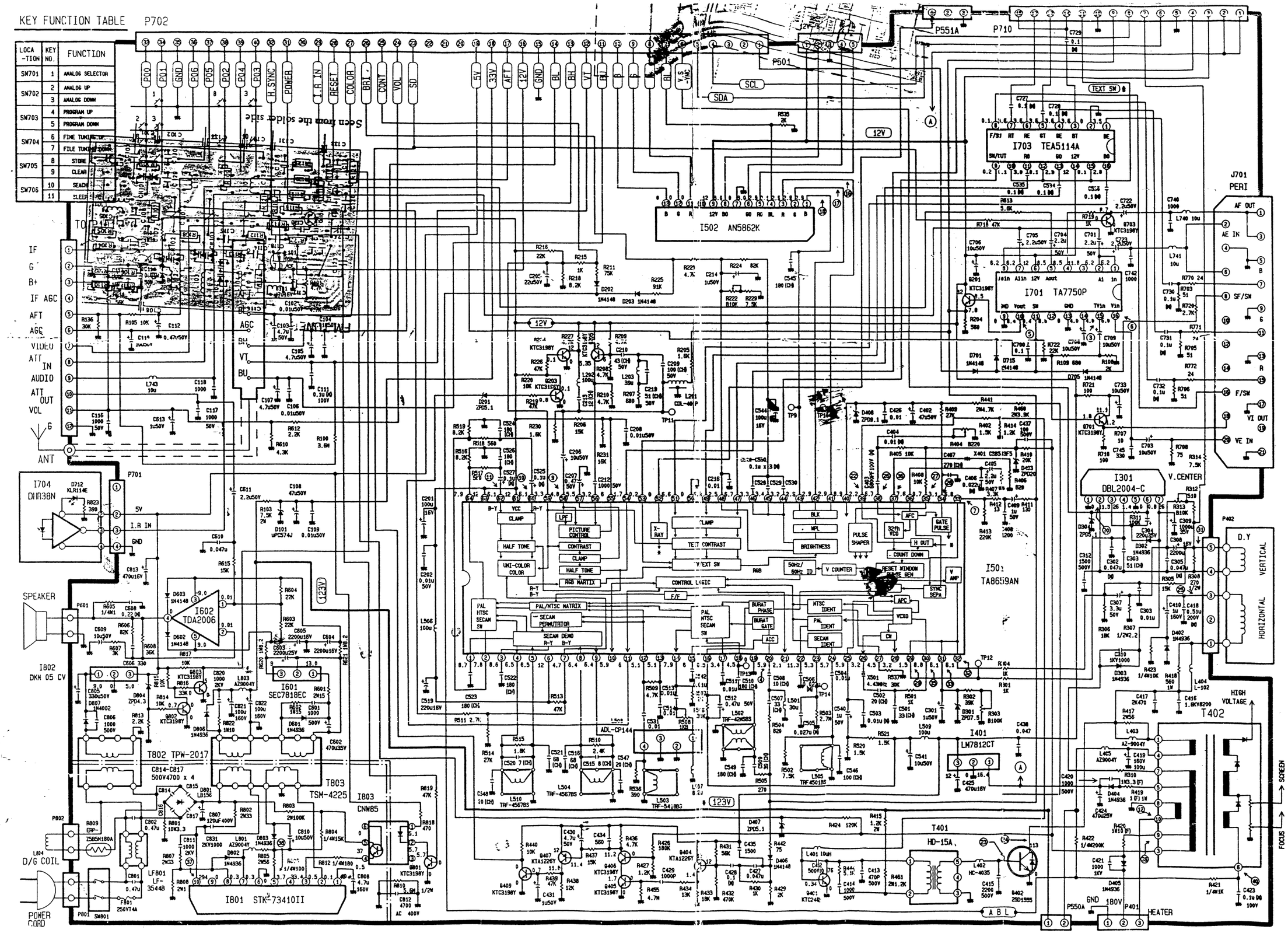

TRANSMITTER
M50467-001P

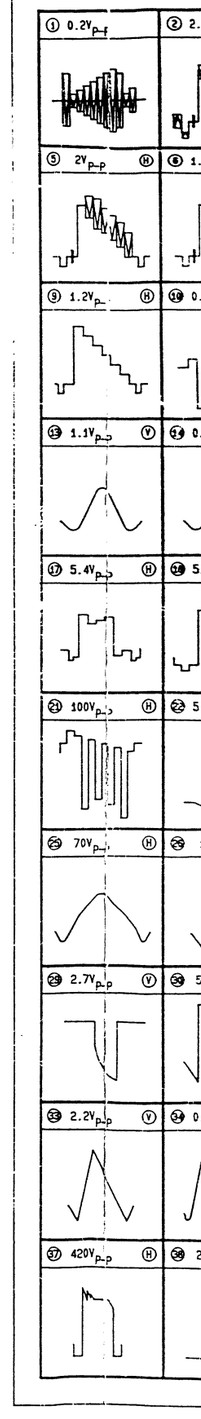

CRT BOARD
TO P401
TO P501
CRT
BLUE
GREEN
RED
GND
12V
HEATER
CATHODE
G2
G1
VB

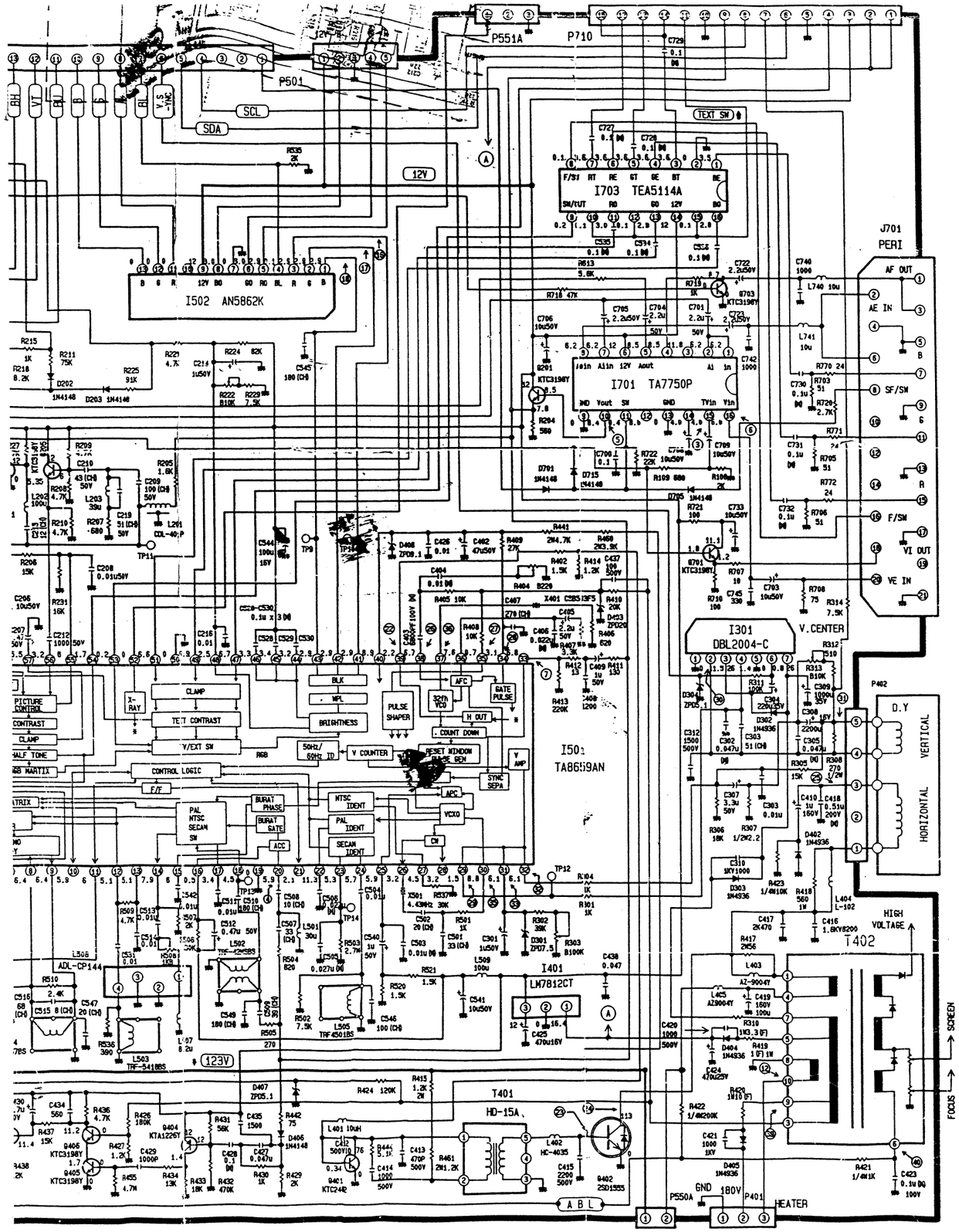

TUNING MODULE
IV01 M34300M4-230SP
IV03 LA7910
IV02 M6M80011P
POWER ON START
AUTO OFF
KEY0
KEY1
KEY2
KEY3
KEY4
KEY5
KEY6
H SYNC
POWER
TUNER
L R IN
RESET
COLOR
BRIG
CONT
VOLUME
GND
+5V
+33V
AFT
+12V
GND
B-
B+
V1
BU
G
R
BLANK
V SYNC
AV1N
AV2
AV1

KEY FUNCTION TABLE P702

LOCATION	KEY NO.	FUNCTION
SW701	1	ANALOG SELECTOR
SW702	2	ANALOG UP
	3	ANALOG DOWN
SW703	4	PROGRAM UP
	5	PROGRAM DOWN
SW704	6	FINE TUNING UP
	7	FINE TUNING DOWN
SW705	8	STORE
	9	CLEAR
SW706	10	SEACH
	11	SLEEP



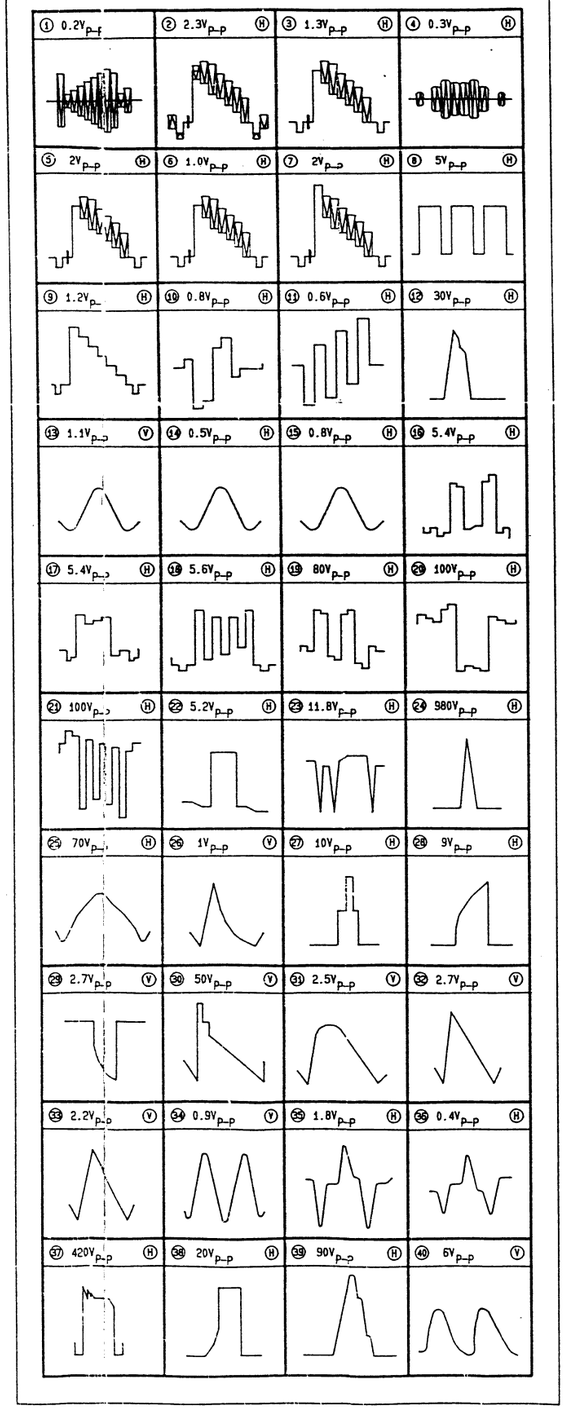




WAVE FORMS

INPUT SIGNAL (PAL OR SECAM)

VIDEO : 8STEP COLOR BAR 87.5% AM
AUDIO : 1KHz SINE WAVE 60% FM


① 0.2V P-P
② 2.3V P-P H
③ 1.3V P-P H
④ 0.3V P-P H
⑤ 2V P-P H
⑥ 1.0V P-P H
⑦ 2V P-P H
⑧ 5V P-P H
⑨ 1.2V P-P H
⑩ 0.8V P-P H
⑪ 0.6V P-P H
⑫ 30V P-P H
⑬ 1.1V P-P V
⑭ 0.5V P-P H
⑮ 0.8V P-P H
⑯ 5.4V P-P H
⑰ 5.4V P-P H
⑱ 5.6V P-P H
⑲ 80V P-P H
⑳ 100V P-P H
㉑ 100V P-P H
㉒ 5.2V P-P H
㉓ 11.8V P-P H
㉔ 980V P-P H
㉕ 70V P-P H
㉖ 1V P-P V
㉗ 10V P-P H
㉘ 9V P-P H
㉙ 2.7V P-P V
㉚ 50V P-P V
㉛ 2.5V P-P V
㉜ 2.7V P-P V
㉝ 2.2V P-P V
㉞ 0.9V P-P V
㉟ 1.8V P-P H
㊱ 0.4V P-P H
㊲ 420V P-P H
㊳ 20V P-P H
㊴ 90V P-P H
㊵ 6V P-P V

NOTES :

1. THE UNITS OF RESISTANCE "OHM" IS OMITTED.
   (K = 1000 OHMS M = 1000000 OHMS)
2. ALL RESISTORS ARE 1/4 or 1/6 WATT
   UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES 1.0 AND ABOVE ARE IN pF
   THOSE BELOW ARE IN uF EXCEPT AS INDICATED.
   (uF = 1000000 pF)
4. INDUCTOR VALUES ARE IN uH EXCEPT AS INDICATED.
5. DC VOLTAGE AND AC WAVEFORM MEASUREMENT CONDITIONS

   ALL THE VOLTAGES IN EACH POINT ARE MEASURED UNDER THE STANDARD COLOUR BAR SIGNAL INPUT AND ALL CONTROLS SET TO THE MAXIMUM POSITION.

   (DC VOLTAGES WITH VTVM AND AC WAVEFORMS WITH OSCILLOSCOPE)

   (FOR A NOMINAL LINE VOLTAGE ; AC 230V 50Hz)
6. SINCE THIS SCHEMATIC DIAGRAM IS A STANDARD ONE THE CIRCUIT AND CIRCUIT CONSTANTS MAY BE SUBJECT TO CHANGE FOR IMPROVEMENT WITHOUT ANY NOTICE.

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R542	R FUSIBLE	1W 5.6 OHM	1W 6.2 OHM
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C418	C MYLAR	200V 0.51uF	200V 0.33uF
T803	TRANS SMPS	TSM-4225	TSM-4245
C811	C CERA	2KV 1000pF	2KV 470pF
C437	C CERA	500V 47pF	500V 100PF
R601	R FUSIBLE	2W 15 OHM	2W 10 OHM
R103	R M-OXIDE	2W 7.5K OHM	2W 5.6K OHM
L403	COIL CHOKE	SHORT CIRCUIT	AZ-9004Y
C417	C CERA	2KB 470PF	OPEN CIRCUIT
R302	R M-OXIDE	1/6W 39K OHM	1/6W 24K OHM